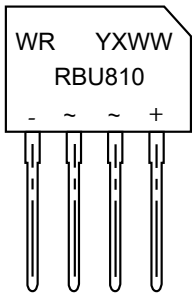
World International (China) Limited Soft-Bridge®

WRRBU810

23-Apr-2020

Ultrasoft Recovery Bridge



Features

ÅGlass Passivated Chip Junction
ÅReverse Voltage - 1000 V
ÅForward Current - 8A
ÅHigh Surge Current Capability
ÅDesigned For Surface Mount Application

PINNING

PIN	DESCRIPTION
1	Input Pin（~）
2	Input Pin（~）
3	Output Anode（+）
4	Output Cathode（-）

Benefits

Å Case: RBU
Å Terminals: Solderable Per MIL-STD-750

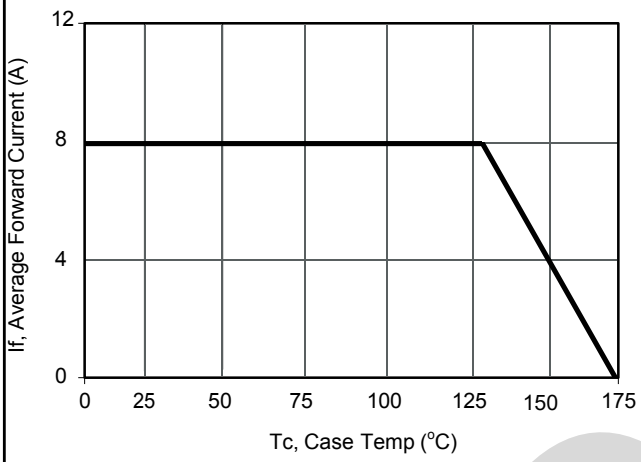
Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

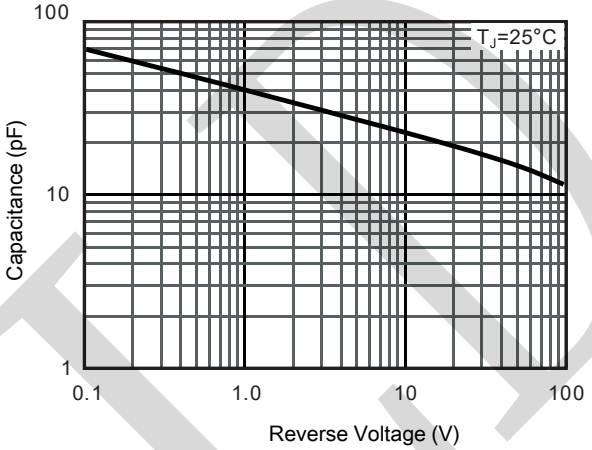
Parameter	Symbols	WRRBU810	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC Blocking Voltage	V_{DC}	1000	V
Average Rectified Output Current	Io	8.0	A
Reverse Recovery Time. IF=0.5A,IR=1A,IRR=0.25A	Trr	10	us
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	180	A
I^2t rating for fusing (1ms< t <10ms)	I^2t	93	A^2S
Maximum Forward Voltage at 4.0 A	V_F	1.0	V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	IR	5 100	uA
Typical Junction Capacitance（Note1）	Cj	50	pF
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +175	°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4 VDC.
2. Mounted on glass epoxy PC board with 4×1.5"×1.5"（3.81×3.81 cm）copper pad.

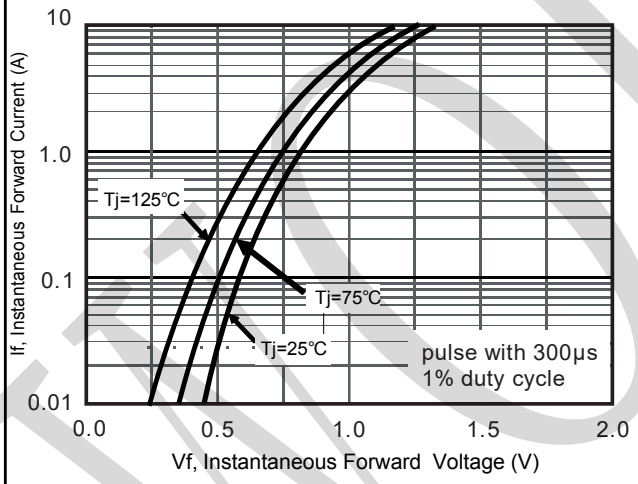
RATINGS AND CHARACTERISTICS CURVES (TA = 25 ˚C unless otherwise noted)



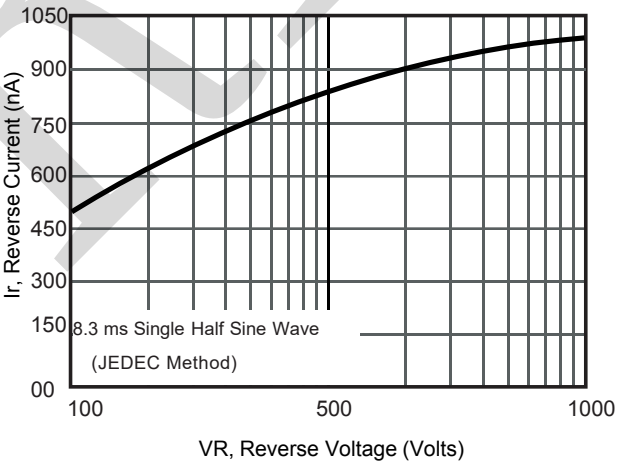
Current Derating, Case



Typical Junction Capacitance



Typical Forward Voltage



Typical Reverse Current

PACKAGE OUTLINE DIMENSIONS